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- Asynchronous view maintenance for VLSD databases**
 Parag Agrawal, Adam Silberstein, Brian F. Cooper, Utkarsh Srivastava, Rag June 2009 **SIGMOD '09: Proceedings of the 35th SIGMOD international conference**
Publisher: ACM [Request Permissions](#)
Full text available: [Pdf \(415.96 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [re](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Citation C

The query models of the recent generation of *very large scale distribute* data storage systems, including our own PNUTS and others (e.g. BigTat etc.) are intentionally simple, focusing on simple lookups ...

Keywords: distributed and parallel databases, indexes, views

- Threats to privacy in the forensic analysis of database systems**
 Patrick Stahlberg, Jerome Miklau, Brian Neil Levine June 2007 **SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data**
Publisher: ACM [Request Permissions](#)
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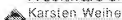
The use of any modern computer system leaves unintended traces of e) users' past activities. In this paper, we investigate the unintended persi database systems. This data can be recovered by forensic ...

Keywords: forensics, privacy, transparency

- Maintaining bounded-size sample synopses of evolving datasets**
 Rainer Gemulla, Wolfgang Lehner, Peter J. Haas March 2008 **The VLDB Journal — The International Journal on Very Large Databases**
Publisher: Springer-Verlag New York, Inc.
Full text available: [Pdf \(833.98 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [re](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 53, Citation

Perhaps the most flexible synopsis of a database is a uniform random sample. Such samples are widely used to speed up processing of analytic queries and query optimization, and facilitate information integration. ...

Keywords: Database sampling, Reservoir sampling, Sample maintenance

4 [A software engineering perspective on algorithmics](#)

Karsien Weihe

March 2001 **Computing Surveys (CSUR)** . Volume 33 Issue 1**Publisher:** ACM Request Permissions

Full text available: Pdf (1.62 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)**Bibliometrics:** Downloads (6 Weeks): 54, Downloads (12 Months): 237, Citati

An algorithm component is an implementation of an algorithm which is alone module, but to perform a specific task within a large software pac distinct software packages. Therefore, ...

Keywords: algorithm engineering5 [Maintenance of K-nn and spatial join queries on continuously moving](#)

Gienn S. Iwerks, Hanan Samet, Kenneth P. Smith

June 2006 **Transactions on Database Systems (TODS)** . Volume 31 Issue**Publisher:** ACM Request Permissions

Full text available: Pdf (2.49 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 119, Citati

Cars, aircraft, mobile cell phones, ships, tanks, and mobile robots all ha that they are moving objects. A kinematic representation can be used t these objects as a function of time. For example, a moving ...

Keywords: k-nearest neighbor, Moving object databases, continuously view maintenance, spatial join, temporal databases6 [Probabilistic top-k and ranking-aggregate queries](#)

Mohamed A. Soliman, Ihab F. Ilyas, Kevin Chen--Chuan Chang

August 2008 **Transactions on Database Systems (TODS)** . Volume 33 Issue**Publisher:** ACM Request Permissions

Full text available: Pdf (1.35 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 348, Citati

Ranking and aggregation queries are widely used in data exploration, di making scenarios. While most of the currently proposed ranking and ag on deterministic data, several emerging applications involve ...

Keywords: Query processing, aggregation, probabilistic data, ranking,7 [Communications of the ACM: Volume 52 Issue 6](#)

June 2009 Communications of the ACM

Publisher: ACMFull text available: Digital Edition , Pdf (6.34 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 8848, Downloads (12 Months): 8848, Ci8 [A survey of top-k query processing techniques in relational database](#)

Ihab F. Ilyas, George Beskales, Mohamed A. Soliman

October 2008 **Computing Surveys (CSUR)** . Volume 40 Issue 4**Publisher:** ACM Request Permissions

Full text available: Pdf (2.02 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)


Bibliometrics: Downloads (6 Weeks): 128, Downloads (12 Months): 1640, Citations

Efficient processing of top- k queries is a crucial requirement in many intelligent information systems that involve massive amounts of data. In particular, efficient top- k processing is required in Web, multimedia search, and distributed ...

Keywords: Top- k , rank aggregation, rank-aware processing, voting

- 9 [ObjectGlobe: Ubiquitous query processing on the Internet](#)
R. Braumandl, M. Keldi, A. Kemper, D. Kossmann, A. Kreutz, S. Seitzsam,
August 2001 **The VLDB Journal — The International Journal on Very Large Databases** Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (251.44 KB) Additional Information: full citation, abstract, references


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 70, Citations

We present the design of ObjectGlobe, a distributed and open query processing system. Today, data is published on the Internet via Web servers which lack the necessary query processing capabilities. The goal of the ObjectGlobe ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Privacy, Quality of service, Query optimization, Security

- 10 [Hancock: A language for analyzing transactional data streams](#)
 Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick S. ...
March 2004 **Transactions on Programming Languages and Systems (TOPLAS)**

Publisher: ACM  Request Permissions

Full text available:  Pdf (217.55 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 100, Citations

Massive transaction streams present a number of opportunities for data mining. In such streams might represent calls on a telephone network, stock market trades, or HTTP requests to a web ...

Keywords: Domain-specific languages, data mining, statistical models

- 11 [Robust approximate aggregation in sensor data management systems](#)
 Jeffrey Considine, Marinos Hadjieleftheriou, Feifei Li, John Byers, George Kollias,
April 2009 **Transactions on Database Systems (TODS)**, Volume 34 Issue 1


Publisher: ACM  Request Permissions

Full text available:  Pdf (694.94 KB) Additional Information: full citation, abstract, references


Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 80, Citations

In the emerging area of sensor-based systems, a significant challenge is to design methods to extract useful information from the data. The sensor data management problem is the use of sensor database ...

Keywords: Sensor databases, aggregation, approximation algorithms, query processing

- 12 [Query by output](#)
 Quoc Trung Tran, Chee-Yong Chan, Srinivasan Parthasarathy
June 2009 **SIGMOD '09: Proceedings of the 35th SIGMOD International Conference on Management of Data**

data

Publisher: ACM  [Request Permissions](#)Full text available:  Pdf (693.97 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 10, Citation

It has recently been asserted that the usability of a database is as important as understanding the database schema, the hidden relationships among at an important role in this context. Subscribing to this ...


Keywords: at-least-one semantics, instance-equivalent queries, query

13 [The intrinsic problems of structural heterogeneity and an approach to](#)

Theo Härder, Günter Sauter, Joachim Thomas

April 1999 **The VLDB Journal — The International Journal on Very Large**


Issue 1

Publisher: Springer-Verlag New York, Inc.Full text available:  Pdf (132.99 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 42, Citation


This paper focuses on the problems that arise when integrating data from a single, unified database view. At first, we give a detailed analysis of the heterogeneity that occur when unified views are derived ...

Keywords: Heterogeneity, Legacy systems, Mapping language, Schema mapping, Updatable views

14 [Efficient gathering of correlated data in sensor networks](#)

 Himanshu Gupta, Vishnu Navda, Samir Das, Vishal Chowdhary

January 2008 **Transactions on Sensor Networks (TOSN)**, Volume 4 Issue 1

Publisher: ACM  [Request Permissions](#)Full text available:  Pdf (488.21 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 472, Citation

In this article, we design techniques that exploit data correlations in sensor communication costs (and hence, energy costs) incurred during data gathering. Our proposed approach is to select a small subset of sensor ...


Keywords: Correlated Data, Energy Efficiency, Topology Control

15 [Efficient allocation algorithms for OLAP over imprecise data](#)

Doug Burdick, Prasad M. Deshpande, T. S. Jayram, Raghu Ramakrishnan, et al.


September 2006 **VLDB '06: Proceedings of the 32nd international conference**

Publisher: VLDB Endowment

Full text available:  Pdf (682.58 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation


Recent work proposed extending the OLAP data model to support data with imprecision and uncertainty. A process called allocation was proposed to transform a fact table into a form, called the Extended Database, that ...

16 [Relaxed-currency serializability for middle-tier caching and replication](#)


 Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Pradeep

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international**

Management of data

Publisher: ACM  [Request Permissions](#)Full text available:  Pdf (418.33 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 127, Citatio



Many applications, such as e-commerce, routinely use copies of data th database due to heuristic caching strategies used to enhance perform control for a transactional model that allows update transactions ...

Keywords: caching, database, freshness constraint, replication, serializ17 [On-the-fly sharing for streamed aggregation](#) Sailesh Krishnamurthy, Chung Wu, Michael FranklinJune 2006 **SIGMOD '06:** Proceedings of the 2006 ACM SIGMOD internatic Management of data**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.11 MB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 176, Citatio

Data streaming systems are becoming essential for monitoring applicati and network intrusion detection. These systems often have to process n queries over common data. Since executing each query ...

Keywords: aggregation, multiple-query optimization, shared processin18 [Efficient maintenance techniques for views over active documents](#) Serge Abiteboul, Pierre Bourhis, Bogdan MarinovMarch 2009 **EDBT '09:** Proceedings of the 12th International Conference on Technology: Advances in Database Technology**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (551.01 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 32, Citatio

Many Web applications are based on dynamic interactions between Web flows of information. Such a situation arises for instance in mashup syst distributed autonomous systems. Our work is in this challenging ...

19 [Data currency in replicated DHTs](#) Reza Akbarinia, Esther Pacitti, Patrick ValduriezJune 2007 **SIGMOD '07:** Proceedings of the 2007 ACM SIGMOD internatic Management of data**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (415.23 KB)[Additional Information: full citation, abstract, re](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 111, Citatio

Distributed Hash Tables (DHTs) provide a scalable solution for data shai ensure high data availability, DHTs typically rely on data replication, yet guarantees. Supporting data currency in replicated DHTs is ...

Keywords: data currency, data davailability, data replication, distributec peer



Optimizing complex queries with multiple relation instances

Yu Cao, Gopal C. Das, Chee-Yong Chan, Kian-Lee Tan

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data**

Publisher: ACM



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Today's query processing engines do not take advantage of the multiple instances of a query to improve performance. Instead, each instance is treated as a separate independent table access method. In this paper, ...

Keywords: interleaved execution, query optimization, query processing

Res

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